

1 [Alta] ~~AL/ESD/016/LS7/1177-14-15~~

ALBERTA ENVIRONMENT

2 / LIST OF ENVIRONMENTAL EDUCATION  
PUBLICATIONS

3 / October 15, 1979

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## BROCHURES

Pesticide Fact Sheet	(jr. high and
--available in class sets	high school)
Air Quality Fact Sheet	(jr. high and
--available in class sets	high school)
The Story of Water Supply	(upper elementary)
Understanding Alberta Lakes	(high school)
An Environment Primer	(upper elementary)
--available in class sets	
(is expected to be available before Christmas)	
The Book of Noise	(teachers only)
Recycling in Alberta	(teachers only)
Environmental Issues: What Are They	(teachers only)

## DIRECTORIES

### Government Environmental Resource Materials Guide

The third draft version of a publication designed to make it easier for teachers to obtain useful resource materials to supplement programs related to the environment. Most applicable to jr. high and high school.

## RESOURCE INFORMATION

### OWL Magazine

A technique how to get better use out of OWL. Includes where to write for subscriptions.

### WEDGE/VEEP

Environmental resources for teachers: fully developed curriculum materials written by teachers. The focus is on developing student appreciation and awareness of their immediate environment. Publication list included.



### Next Time Around\*

A description and suggestions of how to use the award winning 20-minute film on the various aspects of recycling and waste.

### Alberta's Shores\*

A 20-minute film outlining the uses and conflicts affecting Alberta's shorelands.

\*Films are available at the six regional film libraries of the Department of Education, and at both Edmonton and Calgary public and separate school board film libraries.

### Community Surveys In Alberta

A fact finder on an excellent data source for social studies teachers interested in studying their local community.

### Environmental Education Publications

A bibliography of books useful to teachers and students in the area of environmental education. There are commercially available guides, texts, kits, periodicals, etc. included.

## ENVIRONMENT VIEWS

Department magazine dealing with environmental issues in Alberta--a subscription is available free of charge on request.

Note: Environment Views was preceded by a publication entitled Environment News. Back issues of Environment News deal with: --Conserver Society  
--Urban Environment

Available in class sets with teachers' guide  
(high school)

Back issues include:

Recycling --Volume 1, No. 1, April-May, 1978--Deals with the recycling of materials in Alberta including paper, metal, glass and oil. It also looks at attempts to increase recycling. A student's guide is available.

Alberta's Lakes-- Volume 1, No. 2, June-July, 1978--This edition focuses on lake shoreland problems including conflicts over uses such as recreation, wildlife habitat, etc. The nature of Alberta shorelands is also discussed. Student's guide is available.

Endangered Environments --Volume 1, No. 3, August-September, 1978--Covers threatened environments ranging from sand dunes, to prairie grasses, urban areas and historic sites. Student's guide is available.

Agriculture And The Environment --Volume 1, No. 4, October-November, 1978--This issue discusses topics such as agricultural trends and environmental quality, agriculture and pollution and reconciling the needs of wildlife and farmers. Student's guide available.

Automobiles and The Environment --Volume 1, No. 5, December-January, 1978-79--Deals with the environmental price of society's reliance on the automobile and examines alternatives to the "One-Person, One-Car" syndrome. Student's guide available.

Public Participation In Environmental Management --Volume 1, No. 6, February-March, 1979--Discusses the growing involvement of citizens in the environmental decision-making process, including specific examples of environmental groups and individuals, and a debate on whether or not citizen involvement is detrimental to the environment.

Energy And The Environment: I --Volume 2, No. 1, April-May, 1979--Deals with the impact of energy production on the environment.

Energy and the Environment: II --Volume 2, No. 2, June-July, 1979--Deals with the environmental impacts of energy distribution and consumption.

River Shorelands --volume 2, No. 3, August-September, 1979--This issue examines the resource of river shorelands in Alberta, including articles on the types of river shorelands in the province; their historical aspects; their use by wildlife, municipalities, industries and homeowners; floodplain zoning, and the aesthetics of construction along shorelands.



Note: The next issue of Environment Views is due in November, and will discuss PESTICIDES: their future, benefits, alternatives, effects on the peregrine falcon, uses for households, agriculture and industry, etc.

## KITS

### The Glut

A grade three or four comic/workbook available in class sets which deals with "How a family like yours could turn into thoughtless consumers". (A teacher's guide is available as well).

### What Am I?--A Classroom Activity for Studying Alberta Animals

A short unit of study for grade seven students which introduces concepts related to food chains using 22 animals of Alberta.

### Mosquito Kit--Learning About Resource Management

A collection of ideas and activities related to mosquitoes and their management ideally useful to high school biology or junior high science students. Included are suggestions for field and lab studies as well as skits and case studies.

### Hall of Fame Game

A Division II unit running five weeks. Students are given the opportunity to identify the mystery animal of the week. Contents include a day-by-day activity description of the first week, a guess sheet, frame for the mystery guest, follow-up worksheets, first two weeks of clues, and a list of animal possibilities.

## FACT FINDERS

### GENERAL INFORMATION

#### Instructing Environmental Fact Seekers

A set of transparency masters and student worksheets are provided to assist in instructing students on the process of fact finding. Useful to teachers and librarians involved in student report/assignment style projects.

#### An Information Storage System

A fact finder describing a system to ensure proper filing and easy retrieval of resource materials collected by the teacher. Especially useful to librarians or high school teachers.

#### Defining Environmental or Outdoor Education

A self-help guide to defining two terms so often misunderstood by teachers.

#### Four R's For Interpreting Here and Now

Reality, Relevance, Responsibility and Relatedness as presented by Joy Finlay at Association of Canadian Interpreters Conference.

#### Implications for Lower Elementary Environmental Studies

A list of generalizations pertaining to the capabilities of these children.

#### Implications for Middle Elementary Environmental Studies

A list of generalizations pertaining to the capabilities of these children.



### Implications for Upper Elementary Environmental Studies

A list of generalizations pertaining to the capabilities of these children.

### Comparison Studies: A Way To Organize Outdoor Activities (all grades)

A description of an approach for organizing activities for student studies in the schoolyard.

### The Mind-Set Exercise (all levels)

A fact finder describing a simple exercise applicable at any grade level that establishes the knowledge base and vocabulary level of students about to study new subject matter.

### What Is Happening To Our Planet? (3 to 6)

A set of copy masters for a cartoon series on environmental problems.

### A Set of Mini-Posters (1 to 4)

A set of three, page-size, poster masters useful for Division I student activity.

### Constructing A Classroom Ecosystem (4 to 12)

A fact finder describing a simple yet long-term experiment/demonstration that dramatically illustrates the "spaceship earth" concept.

## AERIAL PHOTO STUDIES

(Jr. High/High School)

An activity set on your school and neighborhood.

A packet or individual activities are available:

Obtaining Aerial Photographs of Schools, Communities and  
Other Sites

Aerial Photo Activity--A Puzzle

An Aerial Photo Activity--Identification

An Aerial Photo Activity--Measurement

An Aerial Photo Activity--Using Grids

Aerial Photo Activity--Mini-Grids

A class set of aerial photos

## CAMPS

Some Techniques for Carrying Out Environmental Studies at  
Camps

A set of activities for camp or outdoor studies.

Botch-Upmanship (8 to 12)

An article for students preparing for an extended field trip  
involving camping.

Litter (4 to 7)

Ideas for camp directors and teachers for organizing litter  
cleanups at camps or on the school grounds.

Environmental Awareness at Camp

An article by Dr. John J. Kirk on the importance of an  
ecological approach to the teaching of natural sciences in  
the outdoors.



LANGUAGE ARTS

Working With Words Out-of Doors (3 to 6)

A set of activities for Division II students aimed at language skills development.

Outdoor Language Arts - Alphabet Games

A 10-minute field trip activity for the schoolyard with a focus on language development at Division I or II.

Crossword Word Hunt (5 to 7)

A Division II language arts activity involving word searches in the schoolyard environment.

Adjective Bingo (3 to 6)

A language arts/awareness activity is described for Division I students.

Creative Writing on A Rope (Division II)

A set of environmental language arts activities.

Environmental Language Arts Activities (Division II)

A set of activities relating to language arts and the environment.

The Decision (High School)

A story by Gordon Pellerin from Grande Prairie, entered in the Canada Permanent Trust Award Stories Contest.

## MAPPING AND ORIENTEERING

Packet includes:

### Plane-Table Mapping - Bearing Intercept Method

A technique for mapping areas as large as the schoolyard is described for Division III or IV students (grades 6-12). Circular compass board master included.

### Circular Plot Mapping

A simple technique for mapping reasonably small circular plots for such things as animal and plant life. (grades 4-12) Circular compass master included.

### Introductory Compass Game

A first test activity for students learning to use the compass.

### Multiple Compass Course Game

A complex compass game activity that can be set up in the schoolyard or any open field area. Good for Division III or IV.

### Four Point Compass Game

A reasonably difficult compass game to be played in any open space area for Division III or IV students.

## MINI-BEASTS

(A packet or individual fact finders.)

### The Revised Pooter and The Box Magnifier

Simple pieces of equipment for capturing and observing tiny insects are described.



### Mini-Beast Book List

Sample pages from books that relate to life in the schoolyard, soil, forest and slough.

### Mini Beast Safari

Activities and site locations for your mini-beast hunts.

### Mini Insectarium

How to make a low-cost insectarium.

### Log Post-Mortems (6 to 12)

An activity involving the dissection of a decaying fallen log for the purpose of finding the tiny animal life involved in the recycling process of decay.

### Soil Animals (5 to 12)

A listing of commonly found mini-beasts.

### Spider, Beetle, Fly, Butterfly, Worksheet (7-12)

An activity to help students increase their observation techniques. A 'facts on mini beasts' master is included.

### Aquatic Animal Life Worksheets (5 to 9)

Worksheets designed for use by students in an introductory excursion to a pond, slough or lake.

## OBSERVATION AND RECORDING EXERCISES

### An Outdoor Education Technique - Environmental Trivia

An activity for classes on a nature hike or participating in a camp program. Especially useful at Division II.

### An Outdoor Education Technique - The Question Hunt

A division I or II activity designed to stimulate questioning on the part of students.

### Outdoor Activities - Trust Walks

A schoolyard activity designed to develop sensory awareness other than visual.

### Gathering Facts - For Fun and Practice (4 to 9)

An elementary activity set of worksheets for organizing schoolyard fact-seeking on a variety of topics.

### Focusing (1 to 6)

A set of elementary activities for outdoor studies.

## GAMES AND SKITS

### A Predator/Prey Outdoor Game (5 to 7)

A simple game that can be played indoors or outdoors at any time of the year.

### Find the Numbered Peg Exercise

An outdoor activity for elementary students that can be carried out in the schoolyard.

### Outdoor Activities - Schoolyard Nature Trails

A schoolyard activity for Division II students is described.

### Elementary Outdoor Activities - Skits

A number of skit suggestions for Division I or II are provided.



### A Treasure Hunt

An activity to stimulate students to question what they see outdoors.

## WATER STUDIES

(A packet or in individual fact finders.)

### Simple Experiments with Water (4 to 6)

Three simple activities useful in a unit of study on water and its cycling.

### Water Management Experiment on Erosion

A simple-to-make lab experiment using milk cartons and other no-cost items.

### Checking Water Consumption - The Water Meter

A fact finder concerning water consumption monitoring useful in areas where home water meters are installed.

### Statistics on Precipitation in Alberta

A fact finder containing monthly rainfall averages for 17 of the towns and cities located across Alberta with activity suggestions included.

### Alberta Lakes and Rivers

A fact finder designed to familiarize students with the major water bodies in Alberta.

### Books on Water for Elementary Students

A partial listing of books on water useful for resource centers in elementary schools.

### Self-Test for the Ardent Water Conserver

A fact finder describing some of the things a water conserver can do, but presented as a self-test.

### Water Words and Meanings

A fact finder that describes a language arts exercise pertaining to simple vocabulary related to water.

For further information contact:

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